METADATA FOR THE 2001 MADERA COUNTY LAND USE SURVEY DATA

Originator:

California Department of Water Resources

Date of Metadata:

August 19, 2002

Abstract:

The 2001 Madera County land use survey data set is being developed by DWR through it's Division of Planning and Local Assistance. The data is being gathered using aerial photography and extensive field visits, the land use boundaries and attributes are being digitized, and the data will be going through standard quality control procedures before finalizing. The land uses that are being gathered are detailed agricultural land uses, and lesser detailed urban and native vegetation land uses. The data is being gathered and digitized by staff of DWR's San Joaquin District and the quality control procedures will be performed jointly by staff at DWR's DPLA headquarters from San Joaquin District.

The data will include DWG files (land use vector data), shape files (land use vector data), and JPEG files (raster data from aerial imagery). The vector data is anticipated to be finalized and available in early 2003. The JPEG files are finalized and available.

Purpose:

This data is being developed to aid in DWR's efforts to continually monitor land use for the main purpose of determining the amount of and changes in the use of water.

DWR Contacts:

David Scruggs
San Joaquin District
3374 East Shields Avenue
Fresno, CA 93726-6990
559-230-3322
dscruggs@water.ca.gov

Tom Hawkins
DPLA Headquarters
1416 9th Street
Sacramento, CA 95814
916-653-5573
hawkins@water.ca.gov

Data Development (JPEG files):

1. The aerial photography used for this survey was taken in mid June of 2001. The photos (natural color, 9" by 9", flown at 18,000' above ground with a 6" lens) were scanned at 300 DPI.

2. The scanned images were brought into an image processing system, the images were ortho-rectified and mosiaced into USGS 1:24,000 quad sized files (photoquads). The files have a pixel size of 3 meters.

Data Accuracy:

The corrected imagery (photoquads) was developed using between 12 and 15 ground control points established from terrain corrected satellite imagery with a stated accuracy of about 30 feet. The imagery has never been fully evaluated for positional accuracy, however we believe that the images have about 100 foot accuracy (90 percent of the time, the data is within 100 feet of it's true position).

Projection Information:

The data (photoquads) is in a transverse mercator projection, with identical parameters to UTM projections, except the central meridian is -120 degrees (120 degrees west). For comparison, UTM 10 has a central meridian of 123 degrees west, and UTM 11 has a central meridian of 117 degrees west. This projection allows virtually all of the geographic area of California to be in one 6 degree zone (as opposed to two zones, UTM 10 and 11).

Projection:	Transverse Mercator
Datum:	NAD27
Units:	Meter
Scale Reduction:	0.9996
Central Meridian:	120 degrees west
Origin Latitude:	0.00 N
False Easting:	500,000
False Northing:	0.00

Information on the JPEG Files:

JPEG files were created for each quad where imagery was collected. The file naming convention is 01MAXXXX.JPG, where XXXX is the DWR quadrangle number. For example, files 01MA4136.JPG and 01MA4136.JGW are the quad files for the 2001 Madera County land use survey for quadrangle 4136 (the Madera quad). The .JGW file is the JPEG world file.